

ABSTRACT OF THE DISCLOSURE

The invention is a clamp for retaining an electrical transmission line within a passageway. The clamp is comprised of multiple elements including a loading body and an elongated looking body which together retain the electrical transmission line in box end and pin end tool joint. In one embodiment of the invention it is a system for retaining an electrical transmission line within downhole components. The invention allows a transmission line to be attached to the internal diameter of drilling components. In accordance with one aspect of the invention, the system includes a plurality of downhole components, such as sections of pipe in a drill string, drill collars, heavy weight drill pipe, and jars. The system also includes a coaxial cable running between the first and second end of a drill pipe, the coaxial cable having a conductive tube and a conductive core within it. The invention allows the electrical transmission line to withstand the tension and compression of drill pipe during routine drilling cycles.